

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC2452IDDB#TRPBF

(Engineering Calculation)

DFN 3mm X 2mm Exp. Pad

(printed on: 2014-01-19 23:38:50)

TOTAL MASS (g): 0.01348

COMPONENT MATERIAL	VENDOR/INDUSTRY NAMES	CONSTITUENT NAME	CAS NUMBER	CONSTITUENT MASS (g)	CONSTITUENT (PPM) OF MATERIAL	CONSTITUENT (PPM) OF TOTAL Pkg.		
Active Device	Linear Technology	Silicon (Si)	7440-21-3	0.000418	1000000	21009.8089328		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.004212	975000	312472.03125		
		Iron (Fe)	7439-89-6	0.000104	24000	7715.35888672		
		Phosphorus (P)	7723-14-0	0.000001	300	74.1861419678		
		Zinc (Zn)	7440-66-6	0.000003	700	222.558425903		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-95-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.004220	1000000	320484.125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000185	1000000	13695.2441406		
External Plating Total:						0.000185	1000000	13695.2441406
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000103	1000000	7641.17236328		
Internal Plating Total:						0.000103	1000000	7641.17236328
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000351	750000	26187.7089944		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000000	0	0		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000000	0	0		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000118	250000	8753.9652031		
		Die Attach Total:				0.000471	1000000	34941.671875
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.001034	130000	76708.46875
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.006837	860000	507210.6875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000080	10000	5954.89111328		
Encapsulation Total:						0.007951	1000000	589854
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000032	1000000	2373.95654297		

TOTAL MASS (g): 0.01348